

## EAST Search History

| Ref # | Hits | Search Query   | DBs                                       | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| L1    | 15   | taylor.in. and "gel pad"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2006/05/09 09:33 |
| L7    | 3720 | triang\$6 same baffl\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2006/05/09 10:18 |
| L8    | 875  | triang\$6 same baffl\$4 same<br>(improv\$6 or prefer\$4 or<br>advantag\$6) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2006/05/09 10:21 |
| L9    | 861  | l8 and @pd<"20031124"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2006/05/09 10:22 |
| L10   | 285  | l9 and \$5fluid\$2   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2006/05/09 10:23 |
| L12   | 1268 | triang\$6 same baffl\$4 same<br>(improv\$6 or prefer\$4 or<br>advantag\$6) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2006/05/09 10:51 |
| L13   | 1243 | l12 and @pd<"20031124"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2006/05/09 10:26 |
| L15   | 400  | l13 and \$5fluid\$2  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2006/05/09 10:27 |
| L19   | 1237 | l12 and @pd<"20021124"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2006/05/09 10:26 |
| L20   | 398  | l19 and \$5fluid\$2  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2006/05/09 10:31 |
| L21   | 0    | l19 and microfluid\$2  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2006/05/09 10:37 |

## EAST Search History

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| L22 | 2   | ("6655892" or "20030145894").pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 10:46 |
| L23 | 1   | "6361749".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 10:46 |
| L24 | 42  | triang\$6 adj baffl\$4 same (improv\$6 or prefer\$4 or advantag\$6)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 11:14 |
| L26 | 186 | triang\$6 near4 baffl\$4 same (improv\$6 or prefer\$4 or advantag\$6)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 10:57 |
| L27 | 0   | (microfluidic\$2 same (cartridg\$4 or cassett\$4)) and ((cover\$2 or lid\$2) same opaque\$4 same (prefer\$4 or advantag\$6 or improv\$6)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 11:16 |
| L28 | 6   | (microfluidic\$2 same (cartridg\$4 or cassett\$4)) and (opaque\$4 same (prefer\$4 or advantag\$6 or improv\$6))                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 11:18 |
| L29 | 160 | microfluidic\$2 and (opaque\$4 same (prefer\$4 or advantag\$6 or improv\$6))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 11:22 |
| L30 | 11  | l29 and baffl\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 11:22 |
| S1  | 4   | ("6186659" or "6258593" or "2002177159" or "2003104494").pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 10:39 |
| S2  | 122 | ("6186659" or "6258593").pn. or bedilion.in. or ravkin.in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 10:40 |
| S4  | 1   | "6420114".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 10:49 |
| S5  | 1   | (hahn and steadman and tsinberg).in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:38 |

## EAST Search History

|     |         |  |   |    |     |                  |
|-----|---------|--|---|----|-----|------------------|
| S6  | 1       | (hahn and steadman).in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 11:28 |
| S7  | 1270019 | \$5array\$2 or \$5chip\$2 or immobiliz\$6  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 12:14 |
| S8  | 1686    | S7 and (bubble\$4 same (pop\$4 or fractur\$4 or disrupt\$4))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 12:27 |
| S9  | 409     | S8 and (bubble\$4 same (pop\$4 or fractur\$4 or disrupt\$4) same (chamber\$4 or compartment\$4 or well\$4 or vessel\$4))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:18 |
| S10 | 269     | S9 and (cover\$4 or lid\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 11:04 |
| S11 | 71      | S10 and ((sharp\$4 near\$4 edg\$4) or bump\$4 or protrusion\$4 or protrud\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 12:03 |
| S12 | 1       | "6699665".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 11:11 |
| S13 | 13      | S10 and ((edg\$4 or bump\$4 or protrusion\$4 or protrud\$4) same ((pop\$4 or fractur\$4 or disrupt\$4 or remov\$4) near\$8 bubbl\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 12:05 |
| S14 | 618     | ((fluid\$6 or sample\$2) near\$8 (mix\$4 or combin\$4)) same (bubbl\$4 near\$8 (pop\$4 or disrupt\$4 or fractur\$4 or remov\$4 or divid\$4))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 12:21 |
| S15 | 44      | ("4039247"   "4798706"   "4834946"   "4849340"   "5126276"   "5143854"   "5192503"   "5346672"   "5436129"   "5466603"   "5508200"   "5516490"   "5545531"   "5585275"   "5591646"   "5593838"   "5601141"   "5681484"   "5681741"   "5854065"   "5874219"   "5885837"   "5916750"   "5919701"   "5925547"   "5976789"   "6030787"   "D411308").PN. OR ("6258593").URPN. | US-PGPUB;<br>USPAT;<br>USOCR              | OR | OFF | 2006/05/03 12:14 |

## EAST Search History

|     |        |   |   |    |     |                  |
|-----|--------|---|---|----|-----|------------------|
| S16 | 110    | S14 and (\$5array\$2 or \$5chip\$2 or immobiliz\$6)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 12:21 |
| S17 | 51     | S16 and nucleic   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:10 |
| S18 | 13     | S16 and (nucleic near8 hybridiz\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 12:23 |
| S19 | 15     | S15 and ((fluid\$6 or sample\$2) near8 (mix\$4 or combin\$4))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 12:21 |
| S20 | 3      | S15 and (bubbl\$4 near8 (pop\$4 or disrupt\$4 or fractur\$4 or remov\$4 or divid\$4))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 12:22 |
| S21 | 288    | S8 and baffl\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 12:28 |
| S22 | 45     | S10 and baffl\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 13:46 |
| S23 | 5      | (johansson and esser).in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 12:39 |
| S24 | 7      | ("5910288" or "6420114" or "6485918" or "6551817" or "6613526" or "20020192701" or "20030087292").pn.                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 13:37 |
| S25 | 2      | "5605653".pn. or "5443985".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 13:38 |
| S26 | 108951 | ((fluid\$6 or liquid) near8 mix\$4) and (baffl\$4 or protrusion\$4 or protrud\$4 or spik\$4 or bump\$4 or edg\$4 or finger\$4 or indent\$6) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:41 |
| S27 | 5330   | S26 and nucleic   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:15 |

## EAST Search History

|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S28 | 2302 | S26 and (cover\$4 near10 transparent)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:15 |
| S29 | 284  | S28 and nucleic   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:15 |
| S30 | 188  | S29 and (nucleic same hybridiz\$6)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:19 |
| S31 | 313  | S26 and (bubble\$4 same (pop\$4 or fractur\$4 or disrupt\$4) same (chamber\$4 or compartment\$4 or well\$4 or vessel\$4))                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:23 |
| S32 | 21   | S31 and (nucleic same hybridiz\$6)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:19 |
| S33 | 116  | S28 and ((rectang\$6 or squar\$4) near4 (chamber\$4 or compartment\$4 or well\$2))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:26 |
| S34 | 26   | S31 and ((rectang\$6 or squar\$4) near4 (chamber\$4 or compartment\$4 or well\$2))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:27 |
| S35 | 12   | biocept.as.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:35 |
| S36 | 4    | fitch.att. and microarray   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:40 |
| S37 | 102  | fitch.att. and hybridization  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:41 |
| S38 | 5498 | S26 and ((baffl\$4 or protrusion\$4 or protrud\$4 or spik\$4 or bump\$4 or edg\$4 or finger\$4 or indent\$6) near8 (prefer\$4 or improv\$6 or advantag\$6)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:43 |
| S39 | 174  | S38 and nucleic   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:43 |

## EAST Search History

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S40 | 90   | S38 and (nucleic same hybridiz\$5)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:47 |
| S41 | 27   | S40 and (fluid\$6 same (cartridg\$4 or cassett\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:48 |
| S42 | 1338 | S38 and bubbl\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:46 |
| S43 | 45   | S42 and (nucleic same hybridiz\$5)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:47 |
| S44 | 26   | S43 and (fluid\$6 same (cartridg\$4 or cassett\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:54 |
| S45 | 1    | S44 and baffl\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/03 14:55 |
| S46 | 13   | (US-20020177159-\$ or US-20020177135-\$ or US-20030009157-\$ or US-20030104494-\$ or US-20060068490-\$).did. or (US-5443985-\$ or US-5605653-\$ or US-6186659-\$ or US-6210400-\$ or US-6258593-\$ or US-6420114-\$ or US-6551817-\$ or US-6610499-\$). did. | US-PGPUB;<br>USPAT                        | OR | OFF | 2006/05/08 14:56 |
| S47 | 1    | S46 and (mix\$4 near5 bead\$2)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/08 14:26 |
| S48 | 7    | S46 and (mix\$4 same (particl\$4 or bead\$2))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/08 14:36 |
| S50 | 1    | "5275787".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/08 14:37 |
| S51 | 2    | ("5443985" or "5605653").pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/08 14:38 |

## EAST Search History

|     |        |   |   |    |     |                  |
|-----|--------|---|---|----|-----|------------------|
| S52 | 1417   | (\$5fluidic\$5) and baffle\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/08 15:19 |
| S53 | 469    | S52 and (nucleic or<br>oligonucleotide\$2 or dna or<br>probe\$2)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/08 14:57 |
| S54 | 58     | S53 and bubb\$4 same mix\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/08 14:57 |
| S55 | 59     | ("20010048637"   "20010048900"  <br>"20020048535"   "20020076350"  <br>"20020192701"   "20030123322"  <br>"3856270"   "4946795"   "5070606"<br>  "5194133"   "5222808"  <br>"5230866"   "5376252"   "5385709"<br>  "5443890"   "5534328"  <br>"5545367"   "5595712"   "5640995"<br>  "5646039"   "5658515"  <br>"5690763"   "5698299"   "5771810"<br>  "5842787"   "5846396"  <br>"5849208"   "5858188"   "5869004"<br>  "5872010"   "5882465"  <br>"5882571"   "5904424"   "5904824"<br>  "5921678"   "5922591"  <br>"5932315"   "5932799"   "5945203"<br>  "5985119"   "6004515"  <br>"6007775"   "6030581"   "6074725"<br>  "6136272"   "6186660"  <br>"6190034"   "6193471"   "6235471"<br>  "6264900"   "6287520"  <br>"6296020"   "6409832"   "6482306"<br>  "6494614"   "6537506"  <br>"6572830"   "6623860"  <br>"6676835").PN. | US-PGPUB;<br>USPAT;<br>USOCR              | OR | OFF | 2006/05/08 15:18 |
| S56 | 2      | S55 and baffle\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/08 15:19 |
| S57 | 127149 | (\$5array\$2 or \$5chip\$2 or<br>immobiliz\$5) and (spot\$2 or dot\$2<br>or layer\$2) same (micron\$2 or nm<br>or "mu.m")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/08 17:18 |
| S58 | 5971   | S57 and ((micron\$2 or nm or "mu.<br>m") near\$4 (prefer\$4 or advantag\$6<br>or improv\$6))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/08 17:16 |

## EAST Search History

|     |        |   |   |    |     |                  |
|-----|--------|---|---|----|-----|------------------|
| S59 | 1594   | S58 and ((micron\$2 or nm or "mu.m") near4 (height\$4 or thick\$6) near4 (prefer\$4 or advantag\$6 or improv\$6)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/08 17:18 |
| S60 | 704    | S59 and @pd<"20021124"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/08 17:18 |
| S61 | 4      | S60 and nucleic   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/08 17:22 |
| S62 | 127326 | (\$5array\$2 or \$5chip\$2 or immobiliz\$5) and (spot\$2 or dot\$2 or layer\$2) same (micron\$2 or nm or "mu.m")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 08:12 |
| S63 | 5984   | S62 and ((micron\$2 or nm or "mu.m") near4 (prefer\$4 or advantag\$6 or improv\$6))                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 08:12 |
| S64 | 1597   | S63 and ((micron\$2 or nm or "mu.m") near4 (height\$4 or thick\$6) near4 (prefer\$4 or advantag\$6 or improv\$6)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 08:20 |
| S65 | 704    | S64 and @pd<"20021124"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 08:20 |
| S66 | 22     | S65 and hybridiz\$6   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 08:21 |
| S67 | 4      | S65 and nucleic   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 08:22 |
| S68 | 1121   | S63 and ((micron\$2 or "mu.m") near4 (height\$4 or thick\$6) near4 (prefer\$4 or advantag\$6 or improv\$6))       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 08:20 |
| S69 | 559    | S68 and @pd<"20021124"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 08:20 |
| S70 | 14     | S69 and hybridiz\$6   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 08:21 |



## EAST Search History

|     |   |                 |   |    |     |                  |
|-----|---|-----------------|---|----|-----|------------------|
| S71 | 3 | S69 and nucleic | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/05/09 08:58 |
|-----|---|-----------------|---|----|-----|------------------|